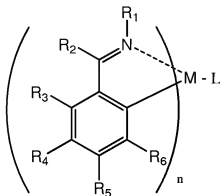


**Amendments to the claims:**

1. (Previously presented) An organometallic complex represented by the following general formula 2,



(Formula 2)

wherein R<sub>1</sub> is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group or a substituted heterocyclic group,

wherein R<sub>2</sub> is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

wherein each of R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, and R<sub>6</sub> is identical with each other or different from each other and is hydrogen, halogen, an alkyl group, an alkoxyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

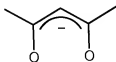
wherein M is an element of Group 9 or an element of Group 10,

wherein n is 2 when the M is the element of Group 9 or n is 1 when the M is the element of Group 10, and

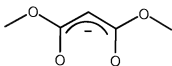
wherein L is a monoanionic ligand having a β-diketone structure, a monoanionic bidentate ligand having a carboxyl group, or a monoanionic bidentate ligand having a phenolic hydroxyl group.

2. (Original) The organometallic complex according to claim 1, wherein the M is iridium or platinum.

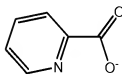
3. (Previously presented) The organometallic complex according to claim 1, wherein the L is any of monoanionic ligands shown by the following structure formulas 3 to 9:



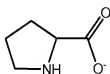
(Formula 3)



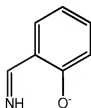
(Formula 4)



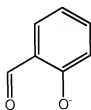
(Formula 5)



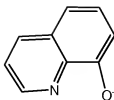
(Formula 6)



(Formula 7)



(Formula 8)



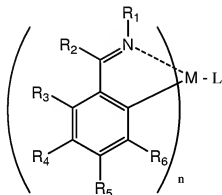
(Formula 9).

4-10. (Canceled)

11. (Previously presented) A light emitting device comprising:

a first electrode over a substrate;

a light emitting layer comprising an organometallic complex represented by the following general formula 2, over the first electrode;



(Formula 2)

a second electrode over the light emitting layer,

wherein R<sub>1</sub> is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group or a substituted heterocyclic group,

wherein R<sub>2</sub> is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

wherein each of R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, and R<sub>6</sub> is identical with each other or different from each other, and is hydrogen, halogen, an alkyl group, an alkoxy group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

wherein M is an element of Group 9 or an element of Group 10,

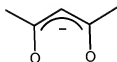
wherein n is 2 when the M is the element of Group 9 or n is 1 when the M is the element

of Group 10, and

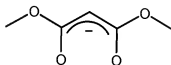
wherein L is a monoanionic ligand having a  $\beta$ -diketone structure, a monoanionic bidentate ligand having a carboxyl group, or a monoanionic bidentate ligand having a phenolic hydroxyl group.

12. (Previously presented) The light emitting device according to claim 11, wherein the M is iridium or platinum.

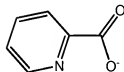
13. (Previously presented) The light emitting device according to claim 11, wherein the L is any of monoanionic ligands shown by the following structure formulas 3 to 9:



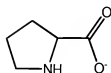
(Formula 3)



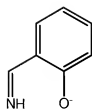
(Formula 4)



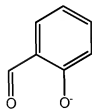
(Formula 5)



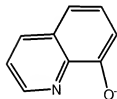
(Formula 6)



(Formula 7)



(Formula 8)



(Formula 9).

14. (Previously presented) A light emitting device according to claim 11, wherein the light emitting device is incorporated into an electronic device selected from the group consisting of a video camera, a digital camera, a goggle-type display, a navigation system, a sound reproduction device, a laptop personal computer, a game machine, a mobile computer, a mobile phone, a portable game machine, an electronic book, and an image reproduction device.

15. (Previously presented) A light emitting device according to claim 11, wherein a hole injection layer comprising a polymer material is formed adjacent to the light emitting layer.

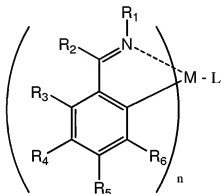
16. (Previously presented) A light emitting device according to claim 11, wherein a hole injection layer comprising a low molecular weight material is formed adjacent to the light emitting layer.

17. (Previously presented) A light emitting device comprising:  
a thin film transistor over a substrate;

an interlayer insulating film over the thin film transistor;

a first electrode electrically connected to the thin film transistor, over the interlayer insulating film;

a light emitting layer comprising an organometallic complex represented by the following general formula 2, over the first electrode;



(Formula 2)

a second electrode over the light emitting layer,

wherein R<sub>1</sub> is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group or a substituted heterocyclic group,

wherein R<sub>2</sub> is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

wherein each of R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, and R<sub>6</sub> is identical with each other or different from each other, and is hydrogen, halogen, an alkyl group, an alkoxy group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

wherein M is an element of Group 9 or an element of Group 10,

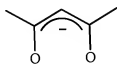
wherein n is 2 when the M is the element of Group 9 or n is 1 when the M is the element of Group 10, and

wherein L is a monoanionic ligand having a β-diketone structure, a monoanionic bidentate ligand having a carboxyl group, or a monoanionic bidentate ligand having a phenolic hydroxyl group.

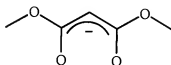
18. (Previously presented) The light emitting device according to claim 17, wherein the

M is iridium or platinum.

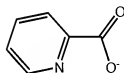
19. (Previously presented) The light emitting device according to claim 17, wherein the L is any of monoanionic ligands shown by the following structure formulas 3 to 9:



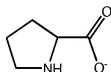
(Formula 3)



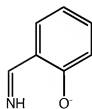
(Formula 4)



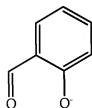
(Formula 5)



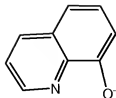
(Formula 6)



(Formula 7)



(Formula 8)



(Formula 9).

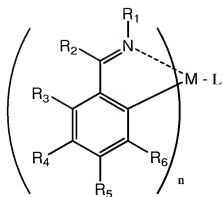
20. (Previously presented) A light emitting device according to claim 17, wherein the light emitting device is incorporated into an electronic device selected from the group consisting of a video camera, a digital camera, a goggle-type display, a navigation system, a sound reproduction device, a laptop personal computer, a game machine, a mobile computer, a mobile phone, a portable game machine, an electronic book, and an image reproduction device.

21. (Previously presented) A light emitting device according to claim 17, wherein a hole injection layer comprising a polymer material is formed adjacent to the light emitting layer.

22. (Previously presented) A light emitting device according to claim 17, wherein a hole injection layer comprising a low molecular weight material is formed adjacent to the light emitting layer.

23. (Previously presented) A light emitting device comprising:  
a first electrode over a substrate;  
a light emitting layer comprising an organometallic complex represented by the following general formula 2, over the first electrode;





(Formula 2)

a second electrode over the light emitting layer,

wherein  $R_1$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group or a substituted heterocyclic group,

wherein  $R_2$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

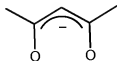
wherein each of  $R_3$ ,  $R_4$ ,  $R_5$ , and  $R_6$  is identical with each other or different from each other, and is hydrogen, halogen, an alkyl group, an alkoxy group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

wherein M is an element of Group 10,

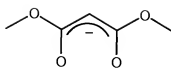
wherein n is 1, and

wherein L is a monoanionic ligand having a  $\beta$ -diketone structure, a monoanionic bidentate ligand having a carboxyl group, or a monoanionic bidentate ligand having a phenolic hydroxyl group.

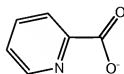
24. (Previously Presented) The light emitting device according to claim 23, wherein the L is any of monoanionic ligands shown by the following structure formulas 3 to 9:



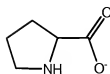
(Formula 3)



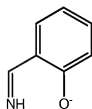
(Formula 4)



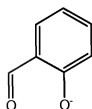
(Formula 5)



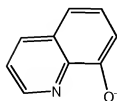
(Formula 6)



(Formula 7)



(Formula 8)



(Formula 9).

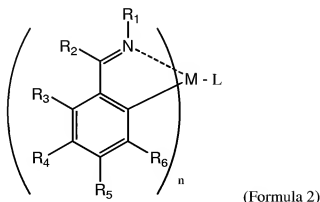
25. (Previously Presented) A light emitting device according to claim 23, wherein the light emitting device is incorporated into an electronic device selected from the group consisting

of a video camera, a digital camera, a goggle-type display, a navigation system, a sound reproduction device, a laptop personal computer, a game machine, a mobile computer, a mobile phone, a portable game machine, an electronic book, and an image reproduction device.

26. (Previously Presented) A light emitting device according to claim 23, wherein a hole injection layer comprising a polymer material is formed adjacent to the light emitting layer.

27. (Previously Presented) A light emitting device according to claim 23, wherein a hole injection layer comprising a low molecular weight material is formed adjacent to the light emitting layer.

28. (Previously presented) A light emitting device comprising:  
 a thin film transistor over a substrate;  
 an interlayer insulating film over the thin film transistor;  
 a first electrode electrically connected to the thin film transistor, over the interlayer insulating film;  
 a light emitting layer comprising an organometallic complex represented by the following general formula 2, over the first electrode;



a second electrode over the light emitting layer,  
 wherein R<sub>1</sub> is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group or a substituted heterocyclic group,

wherein  $R_2$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

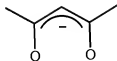
wherein each of  $R_3$ ,  $R_4$ ,  $R_5$ , and  $R_6$  is identical with each other or different from each other, and is hydrogen, halogen, an alkyl group, an alkoxyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

wherein M is an element of Group 10,

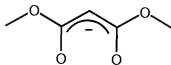
wherein n is 1, and

wherein L is a monoanionic ligand having a  $\beta$ -diketone structure, a monoanionic bidentate ligand having a carboxyl group, or a monoanionic bidentate ligand having a phenolic hydroxyl group.

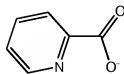
29. (Previously Presented) The light emitting device according to claim 28, wherein the L is any of monoanionic ligands shown by the following structure formulas 3 to 9:



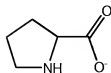
(Formula 3)



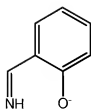
(Formula 4)



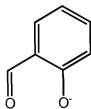
(Formula 5)



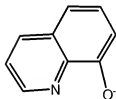
(Formula 6)



(Formula 7)



(Formula 8)



(Formula 9).

30. (Previously Presented) A light emitting device according to claim 28, wherein the light emitting device is incorporated into an electronic device selected from the group consisting of a video camera, a digital camera, a goggle-type display, a navigation system, a sound reproduction device, a laptop personal computer, a game machine, a mobile computer, a mobile phone, a portable game machine, an electronic book, and an image reproduction device.

31. (Previously Presented) A light emitting device according to claim 28, wherein a hole injection layer comprising a polymer material is formed adjacent to the light emitting layer.

32. (Previously Presented) A light emitting device according to claim 28, wherein a hole injection layer comprising a low molecular weight material is formed adjacent to the light emitting layer.

33. (Previously Presented) The organometallic complex according to claim 1, wherein the organometallic complex emits both fluorescence and phosphorescence.

34. (Previously presented) The according to claim 11, wherein the organometallic complex emits both fluorescence and phosphorescence.

35. (Previously presented) The light emitting device according to claim 17, wherein the organometallic complex emits both fluorescence and phosphorescence.

36. (Previously presented) The light emitting device according to claim 23, wherein the organometallic complex emits both fluorescence and phosphorescence.

37. (Previously presented) The light emitting device according to claim 28, wherein the organometallic complex emits both fluorescence and phosphorescence.

38. (Previously Presented) The organometallic complex according to claim 33, wherein an emission from the organometallic complex is white or whitish lighting color.

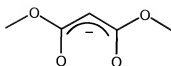
39. (Previously presented) The light emitting device according to claim 34, wherein an emission from the organometallic complex is white or whitish lighting color.

40. (Previously presented) The light emitting device according to claim 35, wherein an emission from the organometallic complex is white or whitish lighting color.

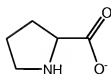
41. (Previously presented) The light emitting device according to claim 36, wherein an emission from the organometallic complex is white or whitish lighting color.

42. (Previously presented) The light emitting device according to claim 37, wherein an emission from the organometallic complex is white or whitish lighting color.

43. (Previously presented) The organometallic complex according to claim 1, wherein the L is any of monoanionic ligands shown by the following structure formulas 4 and 6:

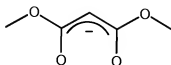


(Formula 4)

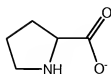


(Formula 6)

44. (Previously presented) The light emitting device according to claim 11, wherein the L is any of monoanionic ligands shown by the following structure formulas 4 and 6:

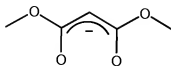


(Formula 4)

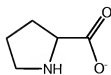


(Formula 6)

45. (Previously presented) The light emitting device according to claim 17, wherein the L is any of monoanionic ligands shown by the following structure formulas 4 and 6:



(Formula 4)



(Formula 6)

46. (Previously presented) The organometallic complex according to claim 1, wherein an excited spectrum of the organometallic complex has two peaks.

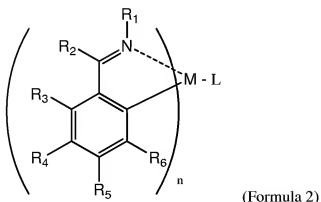
47. (Previously presented) The light emitting device according to claim 11, wherein an excited spectrum of the organometallic complex has two peaks.

48. (Previously presented) The light emitting device according to claim 17, wherein an excited spectrum of the organometallic complex has two peaks.

49. (Previously presented) The light emitting device according to claim 23, wherein an excited spectrum of the organometallic complex has two peaks.

50. (Previously presented) The light emitting device according to claim 28, wherein an excited spectrum of the organometallic complex has two peaks.

51. (Currently amended) An organometallic complex represented by the following general formula 2,



wherein  $R_1$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group or a substituted heterocyclic group,

wherein  $R_2$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic



group, or a substituted heterocyclic group,

wherein each of R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, and R<sub>6</sub> is identical with each other or different from each other and is hydrogen, halogen, an alkyl group, an alkoxyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

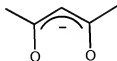
wherein M is an element of Group 9 or an element of Group 10,

wherein n is 2 when the M is the element of Group 9 or n is 1 when the M is the element of Group 10, and

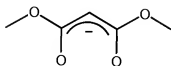
wherein L is a monoanionic ligand having a  $\beta$ -diketone structure, a monoanionic bidentate ligand having a carboxyl group, or a mono anionic bidentate ligand having a phenolic hydroxyl group.

52. (Previously presented) The organometallic complex according to claim 51, wherein the M is iridium or platinum.

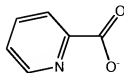
53. (Previously presented) The organometallic complex according to claim 51, wherein the L is any of monoanionic ligands shown by the following structure formulas 3 to 9:



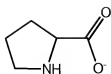
(Formula 3)



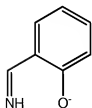
(Formula 4)



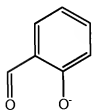
(Formula 5)



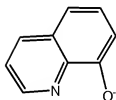
(Formula 6)



(Formula 7)



(Formula 8)



(Formula 9).

54. (Previously presented) The organometallic complex according to claim 51, wherein the organometallic complex emits both fluorescence and phosphorescence.

55. (Previously presented) The organometallic complex according to claim 51, wherein an emission from the organometallic complex is white or whitish lighting color.

56. (Previously presented) The organometallic complex according to claim 51, wherein an excited spectrum of the organometallic complex has two peaks.